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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/666,788	09/17/2003	Yeung Siu Yu	LIFE-004DIV	9001	
24353 75	590 08/30/2006		EXAMINER		
BOZICEVIC, FIELD & FRANCIS LLP 1900 UNIVERSITY AVENUE SUITE 200 EAST PALO ALTO, CA 94303			FORMAN,	FORMAN, BETTY J	
			ART UNIT	PAPER NUMBER	
			1634		
			DATE MAILED: 08/30/2000	DATE MAILED: 08/30/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/666,788	YU ET AL.		
Office Action Summary	Examiner	Art Unit		
	BJ Forman	1634		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status				
 Responsive to communication(s) filed on 13 Jule This action is FINAL. Since this application is in condition for allower closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 21-26 is/are pending in the application 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) 21-26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers	vn from consideration. r election requirement.			
 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner 	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119	•			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa			

DETAILED ACTION

Status of the Claims

1. This action is in response to papers filed 13 June 2006 in which the previous rejections were traversed.

The previous rejections in the Office Action dated 13 February 2006 are withdrawn in view of new grounds for rejection.

Applicant's arguments have been thoroughly reviewed but are deemed moot in view of the withdrawn rejections and new grounds for rejection. New grounds for rejection are discussed.

Claims 21-26 are under prosecution.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 21-23 and 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bamdad (U.S. Patent No. 6,306,584, filed 10 April 1997) and Ruger et al. (U.S. Patent No. 5,834224, issued 10 November 1998).

Regarding Claim s 21, Bamdad teaches a kit (Column 5, lines 12-20) comprising an electrochemical test strip comprising: a reaction zone defined by opposing working and reference electrodes separated by a spacer layer (e.g. Fig. 15-17 and Column 23, line 3-Column 24, line 33) wherein at least one of the electrodes has a surface modified with a homogenous

surface modification layer made up of self assembling molecules (SAM) having a first sulfhydryl end group (Column 11, line 6-Column 12, line 67); and a redox reagent system in said reaction zone, said redox reagent system comprising at least one enzyme and a mediator (Column 24, line 43-Column 25, line 30 and Example 17, Column 44, line 60-Column 45, line 30) and a means for obtaining a sample (e.g. inlet #93) and an analyte standard (e.g. positive and negative controls, Column 32, lines 14-17). Bamdad teaches the SAM comprises a functional group which adheres to the surface (e.g. sulfhydryl, Column 10, lines 30-37; Column 12, lines 3-45; and Column 15, line 37-Column 16, line 42) and a minor component for biomolecule attachment (Column 16, lines 12-15). Bamdad further defines the monolayer as an ordered array of molecules (Column 10, lines 30-34) wherein the kit comprises a single type of SAM (Column 5, lines 12-20) but does not teach the monolayer having sulfonate end group for biomolecule attachment.

Ruger et al teach a similar device comprising a reaction zone having a homogeneous surface monolayer of SAM (Column 2, lines 33-45) having a first sulfhydryl end group (i.e. anchor group, Column 3, lines 20-28) and a second sulfonate end group (e.g. charged group, Column 4, lines 38-43) separated by an alkyl linker (e.g. spacer, Column 5, lines 11-24) and a redox reagent system comprising an enzyme and a mediator (Column 3, line 62-Column 4, line 13). Ruger et al do not teach the test strip in kit format further comprising means for obtaining a sample and analyte standard.

It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to apply the second end group of Ruger et al to the test strip of Bamdad. One of ordinary skill in the art would have been motivated to do so with a reasonable expectation of success based on the teaching of Ruger et al wherein the sulfonate is the preferred end group for enzyme coupling (Column 4, lines 38-43).

Additionally, It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to apply the kit format, sample obtaining means and

standards of Bamdad to the test strip of Ruger et al. One of ordinary skill in the art would have been motivated to do so for the expected benefit providing the means for detecting low-affinity targets from a sample within a reaction chamber wherein all components are combined for use into a kit format (Column 5, lines 12-20 and Column 32, lines 14-17).

Regarding Claim 22, Bamdad teaches the kit wherein the analyte is glucose i.e. glucose test meter (Column 23, lines 20-60) and Ruger et al also teach the system wherein the analyte is glucose (Abstract).

Regarding Claim 23, Bamdad teaches the kit wherein the sample is blood (e.g. Column 25, line 67)

Regarding Claim 25, Bamdad teaches the kit comprising a test strip as described above and further teaches test strip is present in an automated instrument designed to work with test strips (Column 23, lines 20-60) and Backhaus et al teach the similar test strip is present in an automated instrument which is designed to work with test strips e.g. spectrophotometer (Column 6, lines 3-23).

Regarding Claim 26, Bamdad teaches the test strip as described above wherein the test strip is present in an automated instrument designed to work with test strips (Column 23, lines 20-60). Furthermore, the courts have stated that broadly providing an automatic or mechanical means to replace a manual activity which accomplished the same result is not sufficient to distinguish over the prior art (see: *In re Venner*, 262 F.2d 91, 95, 120 USPQ 193, 194 (CCPA 1958)) (see MPEP 2144.04 III).

4. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bamdad (U.S. Patent No. 6,306,584, filed 10 April 1997) and Ruger et al. (U.S. Patent No. 5,834224, issued 10 November 1998) as applied to Claim 21 above and further in view of Blackman (U.S. Patent No. 4,813,538 issued 21 March 1989).

Regarding Claim 24, Bamdad and Ruger et al disclose the kit of Claim 21 as described above wherein the sample is blood (Column 25, line 67) and the analyte is glucose (Column 23, lines 20-60) but they do not teach the kit comprising a lance for obtaining the blood sample. However, kits comprising a lance for obtaining blood samples were well known in the art at the time the claimed invention was made as taught by Blackman who teaches the lance provides a reusable means of obtaining blood samples (Abstract, Column 5, lines 6-9 and Claims 13-15). It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to modify the kit of Bamdad and Ruger et al by including the lance of Blackman. One of ordinary skill in the art would have been motivated to do so based on the economy and convenience of reusable components as taught by Blackman (Column 2, lines 14-17).

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claim 26 rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,716,577 in view of Bamdad (U.S. Patent

Application/Control Number: 10/666,788

Art Unit: 1634

No. 6,306,584, filed 10 April 1997) or Backhaus et al (U.S. Patent No. 5,869,001, issued 9

February 1999).

Instant Claim 26 and patent Claim 1 are both drawn to test strips. The claims differ in

Page 6

that the test strip of instant Claim 26 is within a "system" comprising an "automated

instrument". Test strips within systems comprising automated instruments were well known

in the art at the time the claimed invention was made as taught by both Bamdad and

Backhaus. Bamdad teaches the test strip as described above wherein the test strip is present

in an automated instrument designed to work with test strips (Columns 23-24, e.g. network

analyzer, Column 24, lines 43-56) and Backhaus et al teach the similar test strip is present in

an automated instrument which is designed to work with test strips e.g. spectrophotometer

(Column 6, lines 3-23). It would have been obvious to one of ordinary skill in the art at the

time the claimed invention was made to apply the automated instrument of Bamdad and

Backhaus to the patent test strip for the obvious benefit of networked analysis of reaction on

the test strip as taught by Bamdad (Column 24, lines 43-56).

Furthermore, the courts have stated that broadly providing an automatic or mechanical

means to replace a manual activity which accomplished the same result is not sufficient to

distinguish over the prior art (see: In re Venner, 262 F.2d 91, 95, 120 USPQ 193, 194 (CCPA

1958)) (see MPEP 2144.04 III). Therefore, the combining the patent test strip with an

automated instrument would not distinguish the combination over the patent test strip.

Conclusion

7. No claim is allowed.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BJ Forman whose telephone number is (571) 272-0741. The

examiner can normally be reached on 6:00 TO 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla can be reached on (571) 272-0735. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

BJ Forman, Ph.D. Primary Examiner Art Unit: 1634 August 28, 2006